# Illuminator User Guide

## Ultima Illuminator

Models Covered by this manual:

UFO-250-UG-A
UFO-250-UP-A
UFO-250-UGC-A
UFO-250-UPC-A
UFO-250-UGCF-A
UFO-250-UPCF-A
UFO-250-UGCFF-A
UFO-250-UPCFF-A
UFO-250-UGCS-A
UFO-250-UPCS-A
UFO-250-UGCFS-A
UFO-250-UPCFS-A
UFO-250-UGCSS-A
UFO-250-UPCSS-A

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## INTRODUCTION

Thank you for purchasing this UFO illuminator.

Please read these instructions fully before connecting your unit to the electrical supply, and keep them for future reference.

A high performance 250W metal halide illuminator for ultimate brightness which can be fitted with a choice of wheels for decorative lighting effects.

## IMPORTANT

THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED

**Do not operate without complete lamp enclosure in place or if lens is damaged.**

**KEEP HARNESS IN PLACE WHEN IN OPERATION.**

**CAUTION: Hot surface. Keep away from curtains and other combustible materials.**

**WARNING: RISK OF FIRE/INJURY TO PERSONS. Keep away from combustibles. Unplug to change lamp. Do not touch lamp.**

**WARNING: RISK OF FIRE. Do not place lamp where the overhead surface is closer than 0.3m to the illuminator.**

## IMPORTANT SAFETY INFORMATION

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS

IMPORTANT SAFETY INSTRUCTIONS

Lighted Lamp is HOT:

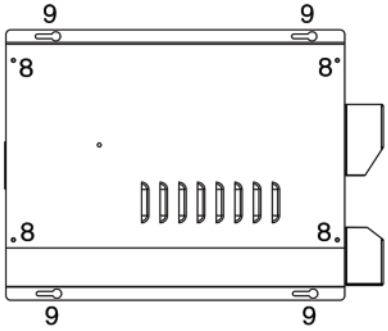
WARNING – To reduce the risk of FIRE, ELECTRIC SHOCK OR INJURY TO PERSONS:

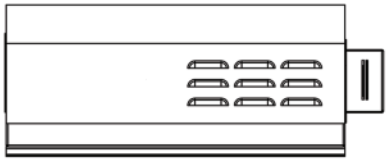
1. Unplug and allow to cool before replacing lamp.
2. Lamp gets HOT quickly! Only contact plug when turning on.
3. Do not touch hot lens, guard, or enclosure.
4. Do not remain in light if skin feels warm.
5. Do not look directly at lighted lamp.
6. Keep lamp away from materials that may burn.
7. Use only with an approved 250W lamp.
8. Do not touch the lamp at any time. Use a soft cloth. Oil from skin may damage lamp.
9. Do not operate product with missing or damaged guard, lamp containment barrier, lens or fiber optic harness.

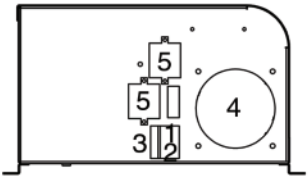
**SAVE THESE INSTRUCTIONS**

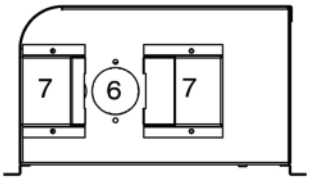
- Always disconnect the unit from the power supply before opening or attempting to perform any work on it.
- UNIT MAY GET HOT - always allow unit to cool down before handling or moving it.
- Do not touch or attempt to remove the lamp while it is hot.
- Ensure that the power supply is correct for the unit before powering it up.
- Always ensure that the unit is properly EARTHED.
- Do not expose the unit to rain or moisture.
- Keep away from all combustible materials.
- Never attempt to tamper with the wiring or other internal components.
- Keep the unit away from gas, oil and any other flammable or explosive materials.

## ILLUMINATOR LAYOUT






| Item | Description |
|---|---|
| 1 | Mains Input Socket |
| 2 | Fuse Drawer |
| 3 | Power Indicator Light |
| 4 | Cooling Fan |
| 5 | Separate Feed Power Inputs |
| 6 | Fiber Port |
| 7 | Motor Covers |
| 8 | 4 x Access Screws |
| 9 | 4 x Mounting Holes |

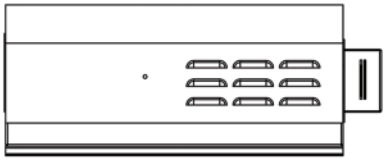
## INSTALLATION GUIDE

In order for the Ultima illuminator to function safely and efficiently it must be installed according to this user manual. Please read all sections thoroughly before switching on the illuminator.

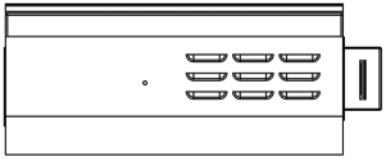
### POWER SUPPLY REQUIREMENTS

Before plugging in the unit, please make sure that the supply is correct. Failure to do so could cause the unit to malfunction. The unit requires a 120VAC 60Hz supply and it MUST BE EARTHED. The illuminator units are provided with a cordset fitted with a standard plug. UNIT MUST NOT BE DIMMED.

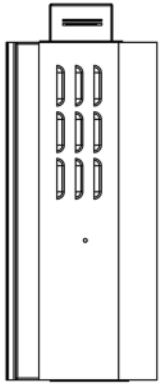
### POSITIONING THE UNIT



Standard horizontal mounting
(on shelf / table)



Upside down mounting
(fixed to underside of shelf)



Vertical mounting
(fixed to wall)

The illuminator can be mounted horizontally, vertically or upside-down on any flat surface. Keyhole slots are provided on the base of the unit to allow for securing to a surface. The illuminator is only suitable for use in a dry area.

If the unit is being mounted at a higher than the ground level, block access below the work area before installing.

Verify that any screws or bolts can safely bear the weight of the illuminator.

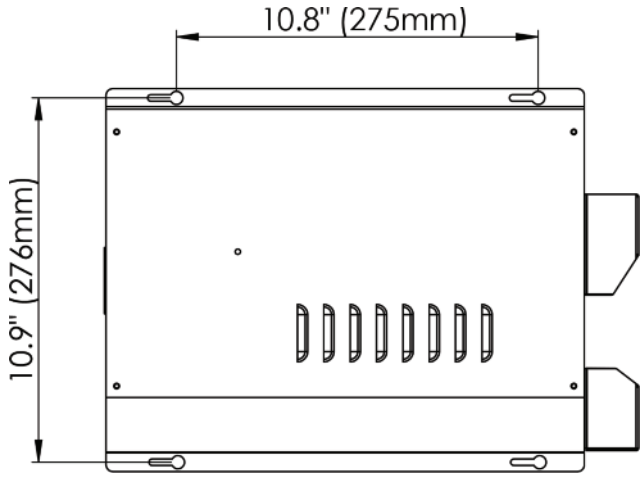
## INSTALLATION GUIDE (Continued)

Verify that the supporting structure can safely bear the weight of all installed units, cables and any other equipment.

For horizontal mounting, it is recommended that the illuminator is secured to a solid surface using 4 x M4 or M5 screws or bolts and the keyhole slots. This is particularly important if the illuminator location is not at ground floor level.

To mount the illuminator vertically, first securely install 4 x M4 or M5 screws or bolts at the required distances so that they will line up with the keyhole slots. The illuminator can then be mounted onto them and slid into position. The bolts or screws MUST then be fully tightened.

To mount the illuminator under a surface, first securely install 4 x M4 or M5 screws or bolts at the required distances so that they will line up with the keyhole slots. The illuminator can then be mounted onto them and slid into position. The bolts or screws MUST then be fully tightened.



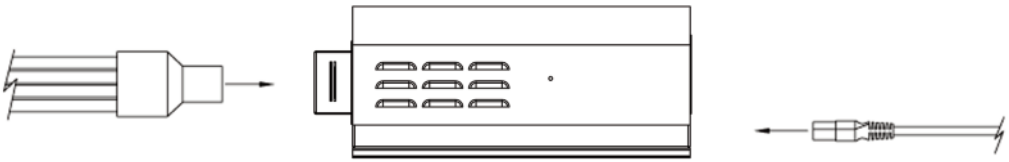

**CLEARANCE / VENTILATION**

It is recommended that a gap of 300mm or more is left around the unit. This is to allow air to circulate and prevent overheating. The location must have free ventilation.

## INSTALLATION GUIDE (Continued)

### CONNECTION

There are 2 main connections required - the fiber port and the mains power supply. Connect and secure the fiber optic connector to the fiber port before connecting the electrical supply. Never run the illuminator with the fiber connector unplugged. For separate feed units, there will be additional power connections required.



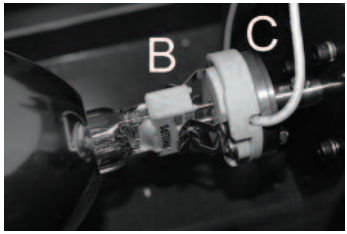
### OPERATION

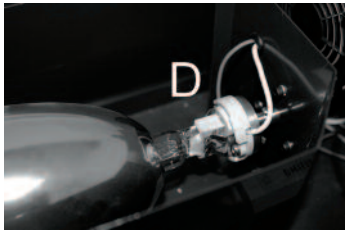
After installing and connecting the illuminator as described above, all you have to do is turn the power on. The lamp will take 3-4 minutes to reach full brightness. This is normal for this type of illuminator.

If no light is produced, please consult the TROUBLESHOOTING section in this manual

## MAINTENANCE

### LAMP REPLACEMENT




1) Disconnect the illuminator from the power supply and allow to cool for 10 to 15 minutes.

2) Remove the cover (A) from the illuminator.

3) The lamp is located near the rear of the illuminator. To free the lamp from its holder, gently pull the lamp forwards (B). DO NOT unscrew the brass holder (C) as this will impair the light output.

4) Dispose of the old lamp carefully.

5) Fit the new lamp (D). DO NOT touch the lamp glass as this may cause it to EXPLODE. If you do, carefully clean it with a lint-free cloth and alcohol.

6) Replace the lid, and reconnect to the power supply.

### FUSE REPLACEMENT

1) Unplug unit from electrical supply and allow to cool.

2) The fuse is located in a drawer under the mains input connector.

3) Open the fuse drawer.

4) Withdraw fuse from its holder

5) Replace with identically specified fuse - see specification table in this manual.

6) Close the fuse drawer and power up the illuminator.

## MAINTENANCE (Continued)

### CLEANING THE UNIT

Disconnect unit from power supply and allow to cool before attempting any cleaning of the unit.

The body of the unit can be cleaned with a soft, damp cloth - do not use any abrasives on the unit.

The fans and vents should be kept clear by periodically blowing them out with compressed air.

Non-abrasive glass cleaner can be used to clean the glass lens inside the unit.

**Please note that a record of all maintenance MUST be kept in the table below, indicating what maintenance was undertaken and when.**

| Date | Maintenance Undertaken |
|---|---|
| | |
| | |
| | |
| | |
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| | |
| | |
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| | |

## TROUBLESHOOTING

| Problem | Probable cause(s) | Remedy |
|---|---|---|
| Unit is completely dead - Lamp and LED power indicator are not illuminated | Main fuse blown | Check and replace fuse. |
| | No power to unit | Check that power is switched on and power supply is plugged in. |
| LED power indicator & fan are on, but no light is output | Lamp blown | Replace lamp |
| | Thermal switch activated | Allow unit to cool for 5 to 10 minutes and investigate reason for overheating |
| | Lamp wires are not connected | Check plug connection - ensure lamp is properly seated in its holder and the pins are fully mated |
| Poor light output | Lamp needs replacing | Replace lamp |
| | Unit needs cleaning | Clean reflector and glass lens |
| | Incorrect power supply | Ensure power supply is 120VAC 60Hz |
| | Fiber port connector not plugged in correctly | Ensure fiber port connector is plugged in correctly, and that the screw is tightened up properly |
| Lamp going on & off randomly | Unit is overheating | Allow unit to cool for 5 to 10 minutes and investigate reason for overheating |
| Decorative wheel not turning on separate electrical feed models | No power to separate feed | Check power is switched on and unit is plugged in |
| | | Check and replace fuse if necessary |
| | Motor faulty | Replace motor |

## TECHNICAL SPECIFICATIONS

| Description | Ultima 250W |
|---|---|
| Port connector size | 30mm diameter |
| Fiber type | Glass & PMMA |
| Supply voltage | 120VAC 60Hz |
| Lamp power | 250W |
| Input power | 360VA @ 120VAC |
| Start up current | 11A @ 120VAC |
| Running current | 5A @ 120VAC |
| Min. ambient temp. | -20°C |
| Max. ambient temp. | 40°C |
| Thermal protection | Self reset thermal switch |
| Ballast type | Magnetic |
| Fan type | Sunon SP101A & Papst 8800N |
| Power cord | IEC mains cable |
| Main fuse | 6.3 Amp |
| Lamp type | Metal halide |
| Lamp model | Philips MSD250/2 (Glass) BLV MHR 250N (PMMA) |
| Lamp life | c. 3000h (Glass) c. 4000h (PMMA) |
| Lamp colour temp. | 8500K (Glass) 4200K (PMMA) |
| Lamp CRI | 70 (Glass) 72 (PMMA) |
| Color wheel | 5 colours plus white |
| Standard wheel colors | Green, blue, yellow, purple, orange |
| Acoustic rating | 47.5dB(A) |
| Operating environment | Indoor / dry |
| Protection rating | IP20 |
| Material | Sheet steel |
| Color | Black powder coated |
| Size | L 16” (407mm) x W 11.4” (290mm) x H 6.5” (165 mm) |
| Weight | 30.5lb (13.84kg) |

## NOTES

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